

DERWENT-ACC-NO: 1985-319429

DERWENT-WEEK: 198551

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TITLE: Room temp. curable aq. coating compsn. - comprising dispersion resin prep'd. from acrylic monomer modified by fatty acid, ethylenically unsatd. carboxylic acids and monomers

PATENT-ASSIGNEE: KANSAI PAINT CO LTD[KAPA]

PRIORITY-DATA: 1984JP-0077068 (April 17, 1984)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|----------------------|------------------|----------|-------|-------------|
| JP <u>60221469</u> A | November 6, 1985 | N/A | 000 | N/A |
| JP 92077030 B | December 7, 1992 | N/A | 009 | C09D 133/14 |

APPLICATION-DATA:

| PUB-NO | APPL-DESCRIPTOR | APPL-NO | APPL-DATE |
|--------------|-----------------|--------------------|----------------|
| JP 92077030B | N/A | 1984JP-0077068 | April 17, 1984 |
| JP 92077030B | Based on | JP <u>60221469</u> | N/A |

INT-CL (IPC): C08F220/28, C08F242/00, C09D003/80, C09D005/00, C09D133/14

ABSTRACTED-PUB-NO: JP 60221469A

BASIC-ABSTRACT:

Compsn. comprises essentially aq. soln. prep'd. by copolymerising (A) 5-98 wt.% of acrylic monomer prep'd. by reacting (A1) unsatd. fatty acid contg. with 2 nor-conjugated double bonds with (A2) (meth)acrylate ester contg. glycidyl gp. and/or (meth)acrylate ester contg. OH gp., (B) 2-40 wt.% of ethylenically unsatd. carboxylic acid(s) of formula (I) (where R1 is H or methyl, R2 is 2-10C alkylene, (ncn) substd. cycloalkylene or (non)substd. phenylene, n is integer of 2-6 and m is integer cf 2-10) and (C) 0-93 wt. % of other alpha-beta-ethylenically unsatd. monomer.

(A1) is pref. fatty acid(s) derived from sunflowercıl, linseed oil, soybean oil, sesame oil, pollyseed oil, perilla oil, hemp seed oil, corr oil, tall oil, grapeseed oil, cottonseed oil, wallnut oil or rubber seed oil and blended opt. with 30 wt.% of other unsatd. fatty acid contg. conjugated double bond (e.g. fatty acid(s) derived from tung oil, oiticica oil or dehydrated castor oil). (A) is prepd. by reacting (A1)(5-65 wt.%) with glycidyl (meth)acrylate (0.7-1.5 mol. per mol. of (A1)) at 60-220 deg.C for 0.5-40 hr. in the pref. absence cf solvent and in opt. presence of polymerisation inhibitor, or with hydroxy(meth) acrylate (e.g. 2-hydroxyethyl (meth)acrylate or 2-hydroxypropyl (meth)-acrylate) (0.5-9.9 mol. per mol. of (A1)) at 100-180 deg.C for 0.5-9 hr. opt. in inert solvent. (E) is pref. 2-carboxy-ethyl (meth)acrylate, 2-carboxypropyl (meth)acrylate or reaction prod. of hydroxyalkyl (meth)acrylate and dibasic carboxylic acid (e.g. succinic, phthalic, methyl phthalic, tetrahydrophtalic or methyl tetrahydrcphthalic acid or anhydride). (C) is 1-18C alkyl (meth)acrylate, glycidyl (meth)acrylate, alkoxyalkyl (meth)acrylate, alkenyl (meth) acrylate, 2-8C hydroxyalkyl (meth)acrylate, monc- or di-alkylaminoalkyl (meth)acrylate or alkenyloxyalkyl (meth)acrylate, aromatic vinyl cpd., polyolefin, (meth)acrylamide, unsatd. carboxylic acid or (meth)acrylo-nitrile or methylisopropenyl ketone.

**TITLE-TERMS: ROOM TEMPERATURE CURE AQUEOUS COATING
COMPOSITION COMPRISE**

**DISPERSE RESIN PREPARATION ACRYLIC MONOMER MODIFIED
FATTY ACID**

ETHYLENIC UNSATURATED CARBOXYLIC ACID MONOMER

ADDL-INDEXING-TERMS:

EPOXY

DERWENT-CLASS: A14 A82 G02

CPI-CODES: A04-A03; A04-F06E1; A12-B01E; G02-A02C; G02-A02D1;

**UNLINKED-DERWENT-REGISTRY-NUMBERS: 0799S; 0800S ; 0817S ; 1078S ;
1454S**

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0214 0231 3152 2020 2318 2504 2509 2628 3252 2718 0495 0502 0600
1235 0235 0300 0377 0384 0405 0496 3007 3021 3035 3049 0503 3014 3028 3042
3056

0531 0538 0545 0552 0559 0566 0573 0580 0587 0594 3063 0601 0608 0622 0629
0992

1166 1173 1236 1282 1633 0228 1238 2072 2177 2189 2206

Multipunch Codes: 014 034 04- 074 076 077 081 085 135 137 231 27& 316 351 397
398 436 473 477 54& 551 560 566 57- 59& 597 600 014 034 04- 041 046 051 055 072
074 075 076 077 080 081 082 083 084 085 086 092 094 096 098 130 132 133 135 137
145 157 226 231 28& 316 33- 336 351 37- 397 398 40- 436 473 477 52& 54& 551 560
566 57- 59& 597 600 720 729 014 03& 135 137 239 298 343 360 58- 723

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1985-137910